Remarks

Claims 1-12 of the application are pending.

Claims 1-12 stand rejected.

Claims 1 and 7 have been amended.

Claims 1-12 are hereby presented for review.

No new matter has been added.

In the Office Action, the Examiner has rejected claims 1 and 7 under 35 U.S.C. § 102(b) as being anticipated by Abraham (U.S. Patent No. 6,396,392). Claims 2-6 and 8-12 are rejected under 35 USC § 103(a) as being unpatentable over Abraham.

Applicant respectfully disagrees with the Examiner's contentions and submits the following remarks in response.

Independent claim 1 is directed to a method for decreasing high frequency (HF) radiation emission from a power line spanning a plurality of utility poles or towers. The steps include transmitting a utility power signal over the power line and transmitting a high frequency communication signal over the power line so as to provide a combined utility and high frequency signal. A plurality of inductors are disposed along a span of the power line, between each of the poles or towers, such that the high frequency radiation emission from power line generated by the high frequency communication signal is reduced along the span of the power line where the inductors are maintained.

Independent claim 7 is directed to a system having similar inductors.

As noted in the background section (pages 2 and 3 of the specification), the addition of high frequency communication signals over existing power lines is increasing. However, one drawback of such an arrangement is that the high frequency communications are emitted from the power lines causing interference with existing communications near such power lines, such as interference with existing radio communications.

The arrangement of the present invention looks to address this situation by placing a series of inductors along the power lines, between the towers or poles, so as to reduce the interfering high frequency emissions (filtering) while simultaneously allowing both the communication and power signals to continue through the power lines with minimal or no interruption.

Such a system and method is not shown in the prior art.

In the rejection, the Examiner has cited to the Abraham reference, which also shows high frequency communication signals being propagated along existing power lines. In Abraham, a typical power transmission system is shown, having high power lines between towers and substations, medium power lines between the substations and terminal transformers (22 and 24) and low power lines (110V) between terminal transformers and houses. Such a system suffers from exactly the same drawbacks as mentioned in the background of the present invention. As the high frequency communication signals pass over the high and medium power lines, between the poles and towers, the power line acts as an antenna, broadcasting the high frequency signal causing significant radio interference.

As such, there is no teaching or suggestion in Abraham that discloses the present invention as claimed in independent claims 1 and 7. for example, there is no teaching or suggestion in Abraham that discloses a plurality of inductors disposed along a span of the power line, between each of the poles or towers, such that the high frequency radiation emission from power line generated by the high frequency communication signal is reduced along the span of the power line where the inductors are maintained.

For at least this reason, Applicant respectfully requests that the rejection of independent claims 1 and 7 be withdrawn. As claims 2-6 and 8-12 depend from claims 1 and 7 respectively, the rejection of these claims should be withdrawn as well for the same reason.

In view of the forgoing, Applicant respectfully submits that claims 1-12 are in condition for allowance, the earliest possible notice of which is earnestly solicited. If the Examiner feels that an interview would facilitate the prosecution of this Application he is invited to contact the undersigned at the number listed below.

Respectfully submitted,

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